This review document is the supplement to previous year’s reviews. This review supplement will include additional practice only in areas that were not covered on previous reviews that will be on your 2012-2013 school year Midterm.

**Chapter 2: Solving Equations**

Directions: Solve for the indicated variable.

1. for W. 2. for h
2. for r 4. for r

Directions: Solve

1. 6.
2. 8.
3. 10.
4. 12.
5. 14.
6. 16.

**Chapter 3:** **Solving and Graphing Inequalities.**

Directions: Solve and Graph the solutions on a number line.

1. 2.

3. 4.

5. 6.

7. 8.

9. 10.

11. 2x + 5 < 17 OR 3x + 8 > 11

**Chapter 4: Functions**

Directions: Given the following data write a function to explain the relationship, and find the value of a given data piece.

|  |  |
| --- | --- |
| x | y |
| 3 | 7 |
| 0 | 5 |
| -6 | 1 |
| 12 | 13 |

|  |  |
| --- | --- |
| x | y |
| -5 | -5 |
| -7 | -9 |
| -3 | -1 |
| -1 | 3 |

1. Find y if x = 20 2. Find y if x = 48

3. 4, 9 14, 19, 24…. Find the 67th term. 4. -2, -5, -8, -11, -14….. Find the 101st term.

**Chapter 5:** **Linear Equations**

Directions: Determine if the following set of data is linear.

|  |  |
| --- | --- |
| x | y |
| 7 | 6 |
| 4 | 3 |
| -2 | -3 |
| 1 | 0 |

|  |  |
| --- | --- |
| x | y |
| 1 | 8 |
| 2 | 5 |
| 3 | 2 |
| 4 | 1 |

1. 2.

|  |  |
| --- | --- |
| x | y |
| -5 | 15 |
| 7 | 3 |
| 8 | 2 |
| -1 | 9 |

|  |  |
| --- | --- |
| x | y |
| 1 | -2 |
| 5 | 1 |
| 13 | 7 |
| 1 | -1 |

3. 4.

Directions: Determine if the following equation is linear. If NO explain why.

5. 6.

7. 8.

9. 10.

11. 12.

Directions: Find the slope given two points.

13. ( 2, 5) , (6, 7) 14. (-3, -5) , (-8,-11)

15. (-4,3) , (5, 1) 16. (2,1) , (-6, 1)

17. (-2, 4) , (-3, 5) 18. (-1,4) , (7, 9)

19. (6, 8) , (6, -1)

Directions: Find x or y given slope and two points.

20. m = (5, 6) , (x, 18) 21. m= (3,y) , (-4, 12)

22. slope= (-4, y) , (6, -15) 23. (5,6 ) , (x, 10)

24. (3, y) , ( 19, 2) 25. slope= 2 (x, 8) , (12, 32)